

MATERIAL SAFETY DATA SHEET

LUBRIMATIC GARAGE DOOR LUBRICANT (11472)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	LUBRIMATIC GARAGE DOOR LUBRICANT (11472)
PART No.	803020
SUPPLIER	Chemtool Incorporated P.O. Box 538 8200 Ridgefield Road Crystal Lake, IL 60039-0538 USA Tel: (815) 459-1250 Fax: (815) 459-1955
EMERGENCY TELEPHONE	Infotrac U.S. and Canada - (800) 535-5053 Outside the U.S. and Canada - 001-352-323-3500

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
*HEXANE	110-54-3	30-50 %
WHITE MINERAL OIL, PETROLEUM	8042-47-5	30-50 %
ETHENE, TETRACHLORO-	127-18-4	10-30 %
*PROPANE	74-98-6	5-10 %
*BUTANE	106-97-8	5-10 %

* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

COMPOSITION COMMENTS	Refer to section eight for exposure limits on ingredients. Chemical ingredients not regulated by OSHA or SARA are treated confidentially.
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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Extremely flammable.
HEALTH HAZARDS, GENERAL	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
CARCINOGENICITY	Product contains: IARC-2B, MAK-B, NIOSH-X, NTP-2B, AND TLV-A3 listed substance(s): Tetrachloroethylene, CAS # 127-18-4. IARC-2B designation: Possibly carcinogenic to humans. MAK-B designation: Justifiably suspected of having carcinogenic potential. NIOSH Ca designation: Potential Occupational Carcinogen. NTP-2B designation: Reasonably anticipated to be a carcinogen with sufficient evidence of carcinogenicity from studies in experimental animals. TLV-A3 designation: Animal carcinogen at relatively high dose, not considered relevant to worker exposure. Not likely to cause cancer in humans.

TERATOGENICITY	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
HEALTH WARNINGS	INHALATION. The solvent vapors can be harmful and cause headache, nausea and intoxication. SKIN CONTACT. Irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating. INGESTION. Dangerous by ingestion.
ROUTE OF ENTRY	Inhalation. Skin and/or eye contact. Ingestion. Skin absorption.

4. FIRST AID MEASURES

INHALATION	Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention.
EYES	Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
SKIN	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
INGESTION	DO NOT INDUCE VOMITING! Get medical attention immediately!

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)	-104 Estimated.
FLAMMABILITY LIMIT - LOWER(%)	1.2
FLAMMABILITY LIMIT - UPPER(%)	9.5
EXTINGUISHING MEDIA	Use: Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.
SPECIAL FIRE FIGHTING PROCEDURES	Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Use special protective clothing. Regular protection may not be safe. Prevent inhalation of fumes and gases.
UNUSUAL FIRE & EXPLOSION HAZARDS	Volume and pressure increases strongly when heated. Risk of container explosion in fire.
HAZARDOUS COMBUSTION PRODUCTS	Acrid smoke/fumes. Oxides of: Carbon.
PROTECTIVE MEASURES IN CASE OF FIRE	Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition.
PRECAUTIONS TO PROTECT THE ENVIRONMENT	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES

Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Provide good ventilation. Use appropriate protective clothing. Rinse area with water. Do not let washing down water contaminate ponds or waterways.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Containers to be kept tightly closed. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Store at temperature below 122°F. Store separated from: Acids. Oxidizing materials.

STORAGE CRITERIA

Flammable liquid storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
HEXANE	OSHA	50 ppm			
	ACGIH	50 ppm			
WHITE MINERAL OIL, PETROLEUM	OSHA			5 mg/m3 ^{**} (1)	
	ACGIH			5 mg/m3 ^{**} (1)	10 mg/m3 ^{**} (1)
ETHENE, TETRACHLORO-	OSHA	25 ppm			
	ACGIH	25 ppm	100 ppm		
PROPANE	OSHA	1000 ppm			
	ACGIH	asphyxiant			
BUTANE	OSHA	800 ppm			
	ACGIH	800 ppm			

PROTECTIVE EQUIPMENT**ENGINEERING CONTROLS**

Use engineering controls to reduce air contamination to permissible exposure level.

VENTILATION

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. In areas with inadequate ventilation, use approved chemical or mechanical filters designed to remove a combination of particles and vapor.

PROTECTIVE GLOVES

Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. or latex.

EYE PROTECTION	Wear splash-proof eye goggles to prevent any possibility of eye contact.
PROTECTIVE CLOTHING	Wear appropriate clothing to prevent repeated or prolonged skin contact.
HYGIENIC WORK PRACTICES	Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE	Aerosol.		
SOLUBILITY DESCRIPTION	Insoluble in water.		
DENSITY	0.77	Temperature (°C)	15.6 (60°F)
VAPOR DENSITY (air=1)	>1		
EVAPORATION RATE	<1	Reference	EtEt=1

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
CONDITIONS TO AVOID	Avoid contact with acids and oxidizing substances. Avoid heat, flames and other sources of ignition.
HAZARDOUS POLYMERIZATION	Will not polymerize.
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	No experimental toxicological data on the preparation as such is available.
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12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	No data on possible environmental effects have been found.
BIOACCUMULATION	Not determined.
BIODEGRADABILITY	Not determined.
ACUTE AQUATIC TOXICITY	Not determined.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with Local Authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME

CONSUMER COMMODITY

DOT HAZARD CLASS

ORM-D (Other Regulated Material D).

U.S. DOT HAZARD LABEL

No DOT label requirement

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS: COMPONENT

HEXANE

WHITE MINERAL OIL, PETROLEUM

ETHENE, TETRACHLORO-

PROPANE

BUTANE

See Section 2 for Additional Information

SARA 302

No

No

No

No

No

CERCLA

1 lb (air)

No

100 lbs

No

No

SARA 313

Yes

No

Yes

No

No

CLEAN AIR ACT: COMPONENT

PROPANE

BUTANE

CAA Accidental Release Prevention

10 000 lbs

10 000 lbs

SARA HAZARD CATEGORIES

Acute Chronic Fire

STATE REGULATORY STATUS

PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required: Tetrachloroethylene, CAS # 127-18-4, 10 - 30%.

INVENTORIES: COMPONENT

HEXANE

WHITE MINERAL OIL, PETROLEUM

ETHENE, TETRACHLORO-

PROPANE

BUTANE

CAN

DSL

DSL

DSL

DSL

DSL

US

Yes

Yes

Yes

Yes

Yes

EU

EINECS

EINECS

EINECS

EINECS

EINECS

AUS

Yes

Yes

Yes

Yes

JAP

Yes

Yes

Yes

Yes

KOR

Yes

Yes

Yes

Yes

CHN

Yes

Yes

Yes

Yes

PHLP

Yes

Yes

Yes

Yes

16. OTHER INFORMATION

NFPA-HMIS: HEALTH	Temporary incapacitation, injury (2) - HMIS/NFPA *
NFPA-HMIS: FLAMMABILITY	Extremely flammable (4) - HMIS/NFPA
NFPA-HMIS: REACTIVITY	Normally Stable (0) - HMIS/NFPA
HMIS PERSONAL PROTECTION INDEX	B - Safety Eyewear and Gloves
PREPARED BY	Heather Holich
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DISCLAIMER	While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.